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Conference Abstract

The New GGBN Data Portal and GGBN Stable Identifiers

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Abstract

The Global Genome Biodiversity Network (GGBN) Data Portal plays an important role in the global biodiversity informatics infrastructure by providing standardized access to 3.8 million DNA, tissue, and environmental samples as well as 2.4 million associated vouchers and cultures from 39 repositories. In addition, more than 3.5 million references to sequence data can be derived from these records and are accessible through the GGBN Data Portal. By making all these resources available in one portal, GGBN is bridging the gap between sequences, samples and vouchers based on well curated physical collections.

In order to increase the usability and interoperability of GGBN data, stable identifiers have been developed based on the Consortium of European Taxonomic Facilities (CETAF) stable identifiers (Güntsch et al. 2017). Each GGBN stable identifier represents a physical object in our member collections, e.g., a sample or voucher.

The landing pages for these identifiers will be embedded in a new version of the GGBN Data Portal, which will be launched by the end of 2024. The portal underwent a complete redesign of the user interface, especially the search and members pages. In addition to the stable identifiers, it will then also be possible to search across all four major GGBN resources (data portal, registry, document library, and wiki). This, in particular, will facilitate the access to information on biobank management, Access and Benefit Sharing, tutorials as well as GGBN conference presentations (Figs 1, 2, 3).

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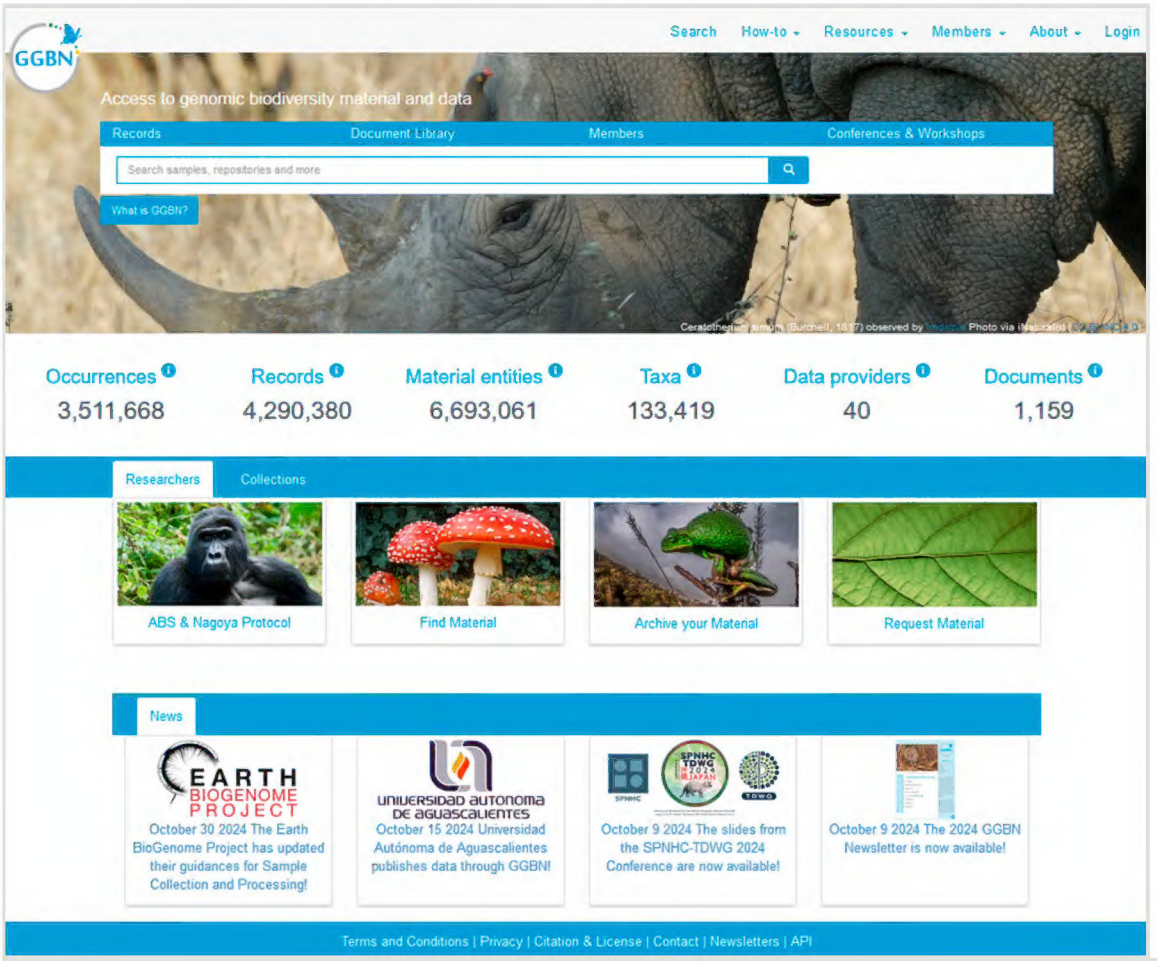
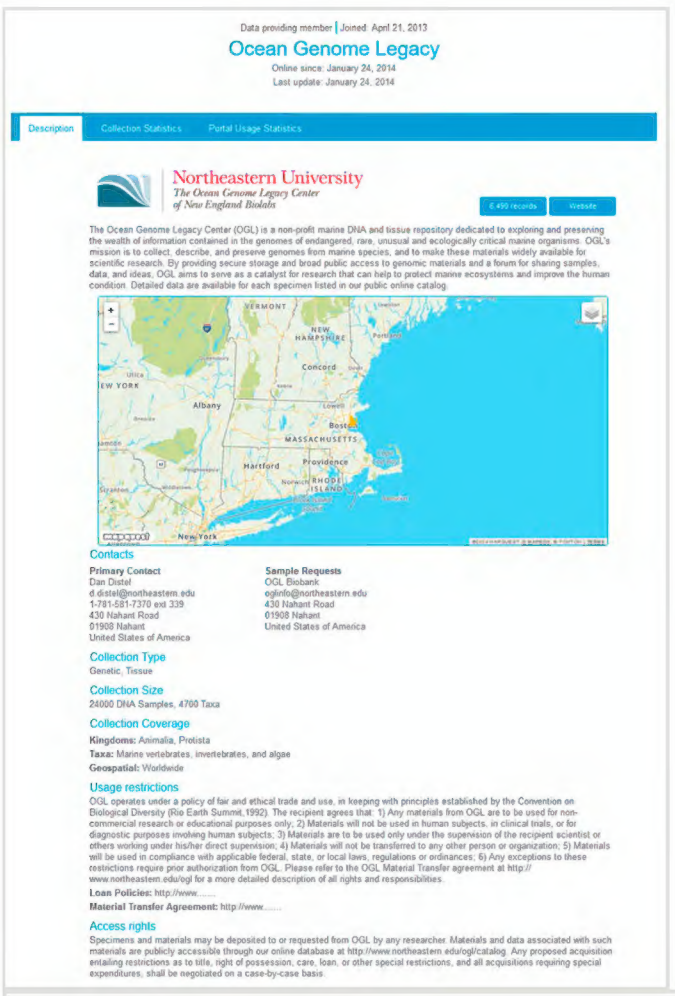


Figure 1.

Landing page of the new GGBN Data Portal.


Data providing member | Joined: April 21, 2013
Ocean Genome Legacy
Online since: January 24, 2014
Last update: January 24, 2014
Description
Collection Statistics
Portal Usage Statistics
Northeastern University
The Ocean Genome Legacy Center of New England Biolabs
6,490 records
Website
The Ocean Genome Legacy Center (OGL) is a non-profit marine DNA and tissue repository dedicated to exploring and preserving the wealth of information contained in the genomes of endangered, rare, unusual and ecologically critical marine organisms. OGL's mission is to collect, describe, and preserve genomes from marine species, and to make these materials widely available for scientific research. By providing secure storage and broad public access to genomic materials and a forum for sharing samples, data, and ideas, OGL aims to serve as a catalyst for research that can help to protect marine ecosystems and improve the human condition. Detailed data are available for each specimen listed in our public online catalog.
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United States of America
Collection Type
Genetic, Tissue
Collection Size
24000 DNA Samples, 4700 Taxa
Collection Coverage
Kingdoms: Animalia, Protista
Taxa: Marine vertebrates, invertebrates, and algae
Geospatial: Worldwide
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Figure 2.

Example of the new GGBN members pages.

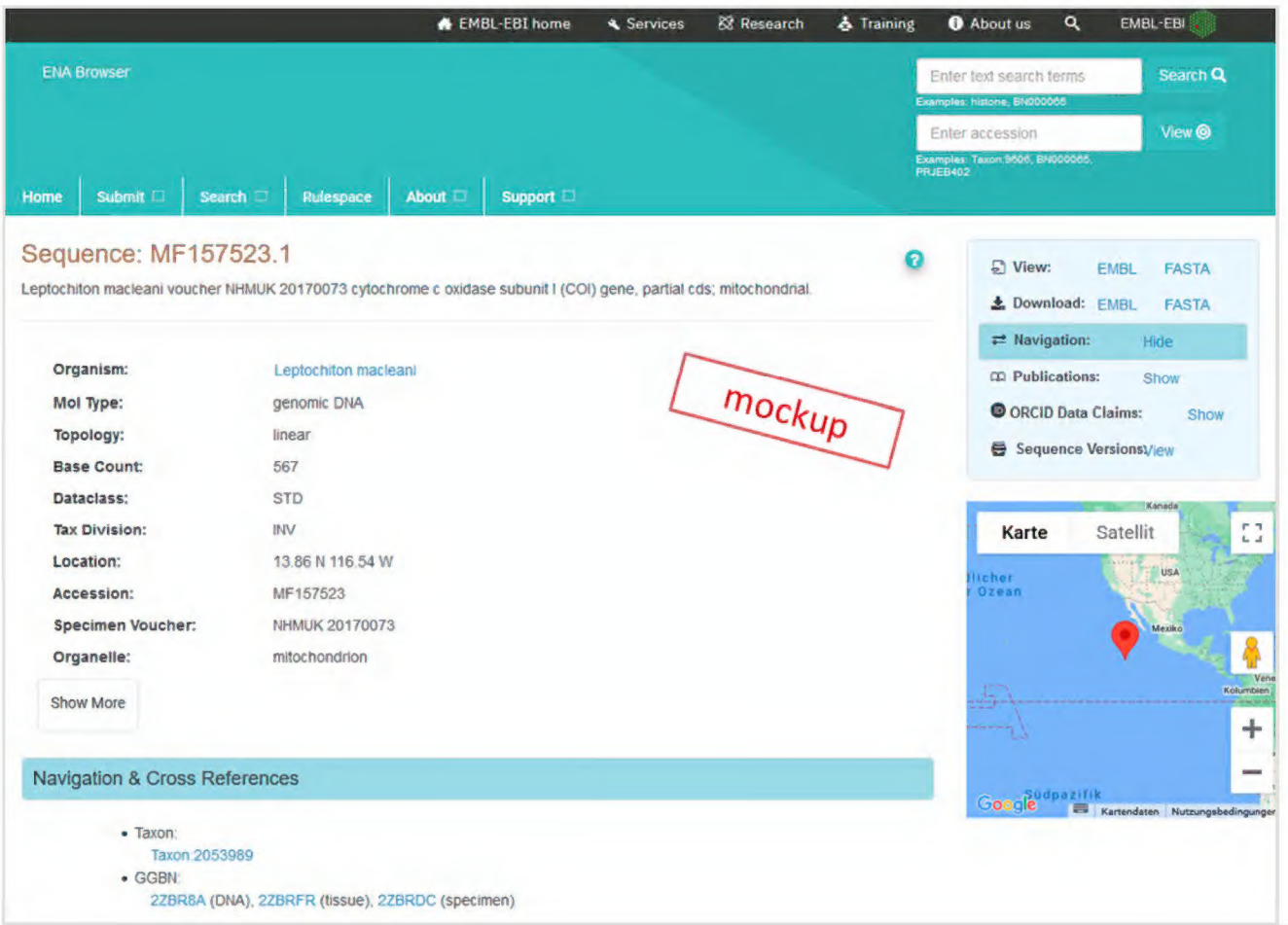

Figure 3.

Example how the GGBN Stable Identifiers will be displayed and used in the European Nucleotide Archive (ENA) portal.

In this presentation we shared information on the new GGBN Data Portal as well as how the GGBN stable identifiers are structured and their future potential use to enrich data in other infrastructures such as the European Nucleotide Archive (ENA).

Keywords

cross-references, genetic samples, data infrastructure

Presenting author

Gabi Droege

Presented at

SPNHC-TDWG 2024

Conflicts of interest

The authors have declared that no competing interests exist.

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